

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 2016-4010US2	SERIAL NO. 09/335,581
INFORMATION DISCLOSURE CITATION <i>(use several sheets if necessary)</i>		APPLICANT(S) Bannan et al. #4	
		FILING DATE June 18, 1999	GROUP ART UNIT #4 1645



U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
m	5,378,607	01/03/95	Chelladurai et al.			
m	5,437,978	08/01/95	Ubukata et al.			
m	5,470,716	11/28/95	Leung et al.			
m	5,476,767	12/19/95	Leung et al.			
m	5,519,114	05/21/96	Johnson et al.			10/29/93
m	5,529,934	06/25/96	Chelladurai et al.			07/29/91
m	5,545,716	08/13/96	Johnson et al.			03/29/94
m	5,585,465	12/17/96	Leung et al.			05/12/95
m	5,601,830	2/11/97	Su et al.			
m	5,705,151	1/6/98	Dow et al.			
m	5,728,388	3/17/98	Terman			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
m	WO 91/10680	07/25/91	PCT				
m	WO 93/24136	12/09/93	PCT				
m	WO 94/20124	09/15/94	PCT				
m	WO 94/25483	11/10/94	PCT				
m	WO 96/36366	11/21/96	PCT				
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B		Bannan, J. et al., "Structure and Function of Streptococcal and Staphylococcal Superantigens in Septic Shock", <i>Infectious Disease Clinics of North America</i> 13(2):387-396 (June 1999); (mailed May 11, 1999 according to the publisher, W. B. Saunders Co.)
m		Bannan, J.D. et al., "Neutralization Of Streptococcal Pyrogenic Exotoxins And Staphylococcal Enterotoxins By Antiserum To Synthetic Peptides Representing Conserved Amino Acid Motifs", <i>Adv. Exp. Med. Biol.</i> 418:903-907 (1997); (published May 1997 in U.S. and Sept. 1997 in Britain according to the publisher's (Plenum Press, New York) catalog at http://www.plenum.com/title.cgi?0306456036)

M M M Bannanfield 01/02/01
JES 8/05

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M		Bavari, S. et al., "Superantigen vaccines: a comparative study of genetically attenuated receptor-binding mutants of staphylococcal enterotoxin A", <i>Journal of Infectious Diseases</i> 174(2):338-45 (1996)	
M		Blomster-Hautamaa, E.A. et al. "Localization of biologic functions of toxic shock syndrome toxin-1 by use of monoclonal antibodies and cyanogen bromide-generated toxin fragments," <i>J. Immunol.</i> 137(11):3572-3576 (1986)	
M		Bohach, G.A., et al., "Biological and immunological properties of the carboxyl terminus of Staphylococcal enterotoxin C1," <i>Infect. Immun.</i> 57(1):23-28 (1989)	
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M		Chu, N.R. et al., "Comparison of peptide and superantigen-induced anergy in a peptide-specific polyclonal human T cell line," <i>Int. Immunol.</i> 7(7):1057-1063 (1995)	
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AA		Fischetti, V.A., et al., "Streptococcal M Protein Extracted By Nonionic Detergent", <i>The Journal of Experimental Medicine</i> , 144/1:32-53 (1976)	
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M		Grossman, D., et al., "Mutation of the disulfide loop in staphylococcal enterotoxin-A -Consequences for T-Cell recognition," <i>J. Immunol.</i> 147(10):3274-3281 (1991)	

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT(S) Bannan et al.	
		FILING DATE June 18, 1999	GROUP ART UNIT IBA / 645

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JUL 19 1999
PATENT & TRADEMARK OFFICE*

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<i>M</i>		Hartwig, U.F., et al., "Mutations affecting MHC class II binding of the superantigen streptococcal erythrogenic toxin A", <u>Intern'l Immunol.</u> , 5:869-75 (1993)	
<i>M</i>		Hayball, J.D., et al. "The domain structure and functional relationships in the bacterial superantigen SEB," <u>Biol. Chem. Hoppe-Seyler</u> 376:303-309 (1995)	
<i>M</i>		Hoffmann, M.L., et al., "Predictions of T-Cell Receptor- and Major Histocompatibility Complex-Binding Sites on Staphylococcal Enterotoxin C1", <u>Infect. Immun.</u> , 62(8):3396-3407 (1994)	
<i>M</i>		Hovde, C.J., et al. "Investigation of the role of disulphide bond activity and structure of staphylococcal enterotoxin Cl," <u>Mol. Micro.</u> 13(5):897-909 (1994)	
<i>GJ</i>		Huang, I.Y., et al., "Complete amino acid sequence of staphylococcal enterotoxin A", <u>J. Biol. Chem.</u> , 262(15) 7006-7013 (1987)	
<i>M</i>		Huang, I.Y., et al., "The primary structure of staphylococcal enterotoxin B. III. The cyanogen bromide peptides of reduced and aminoethylated enterotoxin B, and the complete amino acid sequence", <u>J. Biol. Chem.</u> , 245(14):3518-25 (1970)	
<i>M</i>		Hynes, W.L., et al. "Immunologic Cross-Reactivity of Type A Streptococcal Exotoxin (Erythrogenic Toxin) and Staphylococcal Enterotoxins B and C1", <u>Infect. Immun.</u> , 55(3): 837-838 (1987)	
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<i>M</i>		Jett, M., et al., "Identification of Staphylococcal Enterotoxin B Sequences Important for Induction of Lymphocyte Proliferation by Using Synthetic Peptide Fragments of the Toxin", <u>Infect. Immun.</u> , 62(8):3408-3415 (1994)	
<i>M</i>		Kline, J.B. and Collins, J.M., "Analysis of superantigenic activity of mutant and allelic forms of streptococcal pyrogenic exotoxin A," <u>Infect. Immun.</u> 64(3):861-869 (March 1996)	

*N. M. Manning 01/02/01
J. D. 8/05*

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		FILING DATE June 18, 1999	GROUP ART UNIT <i>TDA 1645</i>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)			
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<i>M</i>		Marrack, P., et al. "The Staphylococcal Enterotoxins and Their Relatives", <i>Science</i> , Vol. 248, pp. 705-711 (1990)	
<i>M</i>		Norrby-Teglund, A., et al., "Plasma from patients with severe invasive group A streptococcal infections treated with normal polyclonal IgG inhibits streptococcal superantigen-induced T cell proliferation and cytokine production", <i>J. Immunol.</i> , 156(8):3057-64 (1996)	
<i>M</i>		Pontzer, C.H., et al., "Localization Of An Immune Functional Site On Staphylococcal Enterotoxin A Using The Synthetic Peptide Approach", <i>J. Immunol.</i> , 143(1):280-284 (1989)	
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<i>M</i>		Printout from the Genetics Computer Group "Motifs" software (citing: Program Manual for the Wisconsin Package, Version 8, September 1994, Genetics Computer Group, 575 Science Drive, Madison, WI, USA 53711)	
<i>M</i>		Ramesh, N., et al., "A toxic shock syndrome toxin-1 peptide that shows homology to mycobacterial heat shock protein 18 is presented as conventional antigen to T cells by multiple HLA-DR alleles," <i>J. Immunol.</i> 148(4):1025-1030 (1992)	
<i>M</i>		Ramesh, N., et al., "A toxic shock syndrome toxin-1 peptide that shows homology to amino acids 180-193 of mycobacterial heat shock protein 65 is presented as conventional antigen," <i>Immunol. Invest.</i> 23(6-7):381-391 (1994)	
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<i>M</i>		Schlievert, P.M., et al., "Molecular structure of staphylococcus and streptococcus superantigens", <i>J. Clin. Immunol.</i> , 15(6) Suppl:4S-10S (1995)	
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MMR Springfield 01/02/01
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MM		Soos, J.M. and Johnson, H.M., "Multiple binding sites on the superantigen, staphylococcal enterotoxin B, imparts versatility in binding to MHC Class II molecules," <u>Biochem. Biophys. Res. Comm.</u> 201(2):596-602 (1994)	
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AM		Spero, L., et al., "On the cross-reactivity of staphylococcal enterotoxins A, B, and C", <u>J. Immunol.</u> , 120:86-89 (1978)	
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MM		Swaminathan, S., et al. "Crystal structure of staphylococcal enterotoxin B, a superantigen", <u>Nature</u> , 359:801-806 (1992)	
M		Takei, S., et al. "Intravenous immunoglobulin contains specific antibodies inhibitory to activation of T cells by staphylococcal toxin superantigens", <u>J. Clin. Invest.</u> , 91:602-607 (1993)	
JD		Van Den Bussche, et al., "Molecular Evolution of the Staphylococcal and Streptococcal Pyrogenic Toxin Gene Family", <u>Molecular Phylogenetics and Evolution</u> , 2:281-292, (1993)	
MM		Warren, J.R., et al. "Stabilization of native structure by the closed disulfide loop of staphylococcal enterotoxin B," <u>Biochimica et Biophysica Acta</u> 359:351-363 (1974)	
MM		Woo, J., et al. "Development of mutants of Staphylococcal toxic shock syndrome toxin-1," <u>Molecules and Cells</u> , 6(1):79-85 (Feb. 1996)	
MM		Copy of slides from oral presentation by Dr. Jason Bannan at "XIII Lancefield International Symposium on Streptococci and Streptococcal Diseases, Paris, France, 9/16/96 to 9/20/96"	
JD		Copy of Search Report in PCT/US98/06663 (listing references and related patents)	
EXAMINER	DATE CONSIDERED	<i>M. Mayfield 6/2/01</i> <i>JD 8/06</i>	

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			APPLICANT(S) Bannan et al.	#5
			FILING DATE June 18, 1999	GROUP ART UNIT 1645



U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
MM	WO	98/45325	10/15/98	PCT				

OTHER DOCUMENTS (*Including Author, Title, Date, Pertinent Papers, Etc.*)

EXAMINER	DATE CONSIDERED
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MM Minnfield 12/14/00

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				APPLICANT(S)	#6
				Bannan et al.	
		FILING DATE	GROUP ART UNIT		
		June 18, 1999	1645		

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
M	WO	98/29444	07/09/98	PCT				

OTHER DOCUMENTS (*Including Author, Title, Date, Pertinent Papers, Etc.*)

M		International Search Report from related application PCT/US99/22180, international filing date: September 24, 1999; claimed priority date: October 7, 1998

EXAMINER	DATE CONSIDERED
M M M M Rinyfield	12/14/00